

AUG 03 2006

PTO/SB/21 (03-03)

Approved for use through 04/30/2003. OMB 0551-0031

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/597,478
	Filing Date	June 20, 2000
	First Named Inventor	Rajendra Kumar Bera
	Art Unit	2124
	Examiner Name	Chat C. Do
	Attorney Docket Number	JP919990272US1
Total Number of Pages in This Submission		11

ENCLOSURES (Check all that apply)		
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Remarks The errors noted in the enclosed Certificate of Correction are due to a mistake by the PTO in the subject patent.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual	Anthony V.S. England
Signature	<i>Anthony VS England</i>
Date	8-3-2006

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: <u>8-3-2006</u>		
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Signature	<i>Anthony VS England</i>	Date <u>8-3-2006</u>

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AUG 03 2006

PTO/SB/44 (04-05)

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CERTIFICATE OF CORRECTIONPage 1 of 10

PATENT NO. : 7,043,510 B1

APPLICATION NO.: 09/597,478

ISSUE DATE : May 9, 2006

INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 27th line of column 4, as set out in the printed patent, which reads
 $"e_{11}x_1 + e_{12}x_2 + e_{13}x_3 + \dots e_{1n}x_n = b_1"$ should read
 $-- e_{11}x_1 + e_{12}x_2 + e_{13}x_3 + \dots + e_{1n}x_n = b_1 --.$

The 29th line of column 4, as set out in the printed patent, which reads
 $"e_{21}x_1 + e_{22}x_2 + e_{23}x_3 + \dots e_{2n}x_n = b_2"$ should read
 $-- e_{21}x_1 + e_{22}x_2 + e_{23}x_3 + \dots + e_{2n}x_n = b_2 --.$

The 50th line of column 4, as set out in the printed patent, which reads "...where l_{ii} and r_i are algebraic expressions ..." should read -- where l_{ii} and r_i are algebraic expressions--

The 32nd line of column 4, as set out in the printed patent, which reads
 $"e_{n1}x_1 + e_{n2}x_2 + e_{n3}x_3 + \dots e_{nn}x_n = b_n"$ should read
 $-- e_{n1}x_1 + e_{n2}x_2 + e_{n3}x_3 + \dots + e_{nn}x_n = b_n --.$

The 10th line of column 6, as set out in the printed patent, which reads "In each term operands are sorted (rearranged) in ascending order ..." should read --
 In each term the operands are sorted (rearranged) in ascending order ... --.

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PTO/SB/44 (04-05)

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CERTIFICATE OF CORRECTIONPage 2 of 10

PATENT NO. : 7,043,510 B1

APPLICATION NO.: 09/597,478

ISSUE DATE : May 9, 2006

INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 3rd line of column 7, as set out in the printed patent, which reads

$$e_{jk} = e_{jk} e_{11} - e_{1k} e_{j1}; \text{ and}''$$
 should read --
$$e_{jk} = e_{jk} e_{11} - e_{1k} e_{j1}; \text{ and} --.$$

The 5th line of column 7, as set out in the printed patent, which reads

$$b_j = b_j e_{11} - b_1 e_{j1},''$$
 should read --
$$b_j = b_j e_{11} - b_1 e_{j1}, --.$$

The 42nd line of column 7, as set out in the printed patent, which reads

$$e_{jk} = e_{jk}^{l-1} e_{11} - e_{1k}^{l-1} e_{j1},''$$
 should read --
$$e_{jk} = e_{jk}^{l-1} e_{11} - e_{1k}^{l-1} e_{j1}, --.$$

The 44th line of column 7, as set out in the printed patent, which reads

$$b_j = b_j^{l-1} e_{11} - b_1^{l-1} e_{j1},''$$
 should read --
$$b_j = b_j^{l-1} e_{11} - b_1^{l-1} e_{j1}, --.$$

The 46th line of column 7, as set out in the printed patent, which reads
 "for $l = 1, \dots, n-1; (j,k) = 1+1, \dots, n,$ " should read
 -- for $l = 1, \dots, n-1; (j,k) = l+1, \dots, n, --.$

The 56th line of column 7, as set out in the printed patent, which reads "...
 calculating the unknown x_i , the product $l_i x_i$ is calculated, ..." should read -- ...
 calculating the unknown x_i , the product $l_i x_i$ is calculated, ... --.

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PTO/SB/44 (04-05)

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 3 of 10

PATENT NO. : 7,043,510 B1

APPLICATION NO.: 09/597,478

ISSUE DATE : May 9, 2006

INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 58th line of column 7, as set out in the printed patent, which reads "... a ratio $x_i = r_i/l_{ii}$ with r_i a numerator and l_{ii} a denominator. With ... " should read -- ... a ratio $x_i = r_i/l_{ii}$ with r_i a numerator and l_{ii} a denominator. With ...--.

The 63rd line of column 7, as set out in the printed patent, which reads " $l_{nn} = n^{-1}e_{nn}$ " should read -- $l_{nn} = n^{-1}e_{nn}$ --.

The 49th line of column 8, as set out in the printed patent, which reads "Note that since l_{ij} is a factor of $l_{i+1,i+1}$, R_{ij} will be free of ..." should read -- Note that since l_{ij} is a factor of $l_{i+1,i+1}$, R_{ij} will be free of ... --.

The 51st line of column 8, as set out in the printed patent, which reads "...back substitution step 280 where factors common to l_{ii} and ..." should read -- ... back substitution step 280 where factors common to l_{ii} and ... --.

The 54th line of column 8, as set out in the printed patent, which reads "...SLAEs systems S_1 and S_2 , string arrays $(l_{ii})_1$ and $(r_i)_1$..." should read -- ... SLAEs systems S_1 and S_2 , string arrays $(l_{ii})_1$ and $(r_i)_1$... --.

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PTO/SB/44 (04-05)

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CERTIFICATE OF CORRECTIONPage 4 of 10

PATENT NO. : 7,043,510 B1

APPLICATION NO.: 09/597,478

ISSUE DATE : May 9, 2006

INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 55th line of column 8, as set out in the printed patent, which reads "... and $(l_{ii})_2$ and $(r_i)_2$ for system S_2 ..." should read -- ... and $(l_{ii})_2$ and $(r_i)_2$ for system S_2 ... --.

The 58th line of column 8, as set out in the printed patent, which reads "...respective string arrays l_{ii} and r_i where shown ..." should read -- ... respective string arrays l_{ii} and r_i where shown ... --.

The 2nd line of column 9, as set out in the printed patent, which reads "...step 290 calculates expressions $(l_{ii})_1 * (r_i)_2$ and $(l_{ii})_2 * (r_i)_1$ for ..." should read -- ... step 290 calculates expressions $(l_{ii})_1 * (r_i)_2$ and $(l_{ii})_2 * (r_i)_1$ for ... --.

The 3rd line of column 9, as set out in the printed patent, which reads "If all the expressions $(l_{ii})_1 * (r_i)_2$ and ..." should read -- If all the expressions $(l_{ii})_1 * (r_i)_2$ and ... --.

The 4th line of column 9, as set out in the printed patent, which reads "... $(l_{ii})_2 * (r_i)_1$ have been consistently ..." should read -- ... $(l_{ii})_2 * (r_i)_1$ have been consistently ... --.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO. : 7,043,510 B1

APPLICATION NO.: 09/597,478

ISSUE DATE : May 9, 2006

INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 6th line of column 9, as set out in the printed patent, which reads "...of $(1_{ii})_1 * (r_i)_2$ with $(1_{ii})_2 * (r_i)_1$." should read -- ... of $(l_{ii})_1 * (r_i)_2$ with $(l_{ii})_2 * (r_i)_1$. --.

The 55th line of column 9, as set out in the printed patent, which reads "// contain l_{ii} " should read -- ... // contain l_{ii} --.

The 57th line of column 9, as set out in the printed patent, which reads "The solution will be $x_i = 1_{ii} / r_i$." should read -- ... The solution will be $x_i = l_{ii} / r_i$. --.

The 49th line of column 11, as set out in the printed patent, which reads "...numerators r_i and the denominators l_{ii} can be found." should read -- ... numerators r_i and the denominators l_{ii} can be found --.

The 51st line of column 11, as set out in the printed patent, which reads "... r_3 and the denominator l_{33} are as follows:" should read -- ... r_3 and the denominator l_{33} are as follows: --.

The 57th line of column 11, as set out in the printed patent, which reads "Substituting numerator r_3 and denominator l_{33} ..." should read -- Substituting numerator r_3 and denominator l_{33} ... --.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 6 of 10

PATENT NO. : 7,043,510 B1
 APPLICATION NO.: 09/597,478
 ISSUE DATE : May 9, 2006
 INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the 64th line of column 11, the variable in the right hand side of the table, which reads " l_{22} " should read -- l_{22} --.

In the 13th line of column 12, the variable in the right hand side of the table, which reads " l_{11} " should read -- l_{11} --.

In the 64th line of column 12, the variable in the right hand side of the table, which reads " l_{33} " should read -- l_{33} --.

The 17th line of column 13, as set out in the printed patent, which reads "Substituting numerator r_3 and denominator l_{33} ..." should read -- Substituting numerator r_3 and denominator l_{33} ... --.

In the 24th line of column 13, the variable in the right hand side of the table, which reads " l_{22} " should read -- l_{22} --.

In the 40th line of column 13, the variable in the right hand side of the table, which reads " l_{11} " should read -- l_{11} --.

The 52nd line of column 13, as set out in the printed patent, which reads "Performing step 290, the expressions $(l_{ii})_1 * (r_i)_2$ and (l_{ii}) ..." should read -- Performing step 290, the expressions $(l_{ii})_1 * (r_i)_2$ and (l_{ii}) ... --.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 7 of 10

PATENT NO. : 7,043,510 B1

APPLICATION NO.: 09/597,478

ISSUE DATE : May 9, 2006

INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 54th line of column 13, as set out in the printed patent, which reads "... example, calculating $(1_{22})_1 * (r_2)_2$ gives the following:" should read -- ... example, calculating $(l_{22})_1 * (r_2)_2$ gives the following: --.

The 1st line of column 14, as set out in the printed patent, which reads "Step 290 similarly calculates the expressions $(1_{ii})_1 * (r_i)_2$..." should read -- Step 290 similarly calculates the expressions $(l_{ii})_1 * (r_i)_2$... --.

The 15th line of column 14, as set out in the printed patent, which reads "Similarly, calculating $(1_{22})_2 * (r_2)_1$ gives the following:" should read -- Similarly, calculating $(l_{22})_2 * (r_2)_1$ gives the following: --.

The 16th line of column 14, as set out in the printed patent, which reads "... and $(1_{ii})_2 * (r_i)_1$..." should read -- ... and $(l_{ii})_2 * (r_i)_1$... --.

The 17th line of column 14, as set out in the printed patent, which reads "... $(1_{22})_1 * (r_2)_2$ with $(1_{22})_2 * (r_2)_1$, ..." should read -- ... $(l_{22})_1 * (r_2)_2$ with $(l_{22})_2 * (r_2)_1$, ... --.

The 19th line of column 14, as set out in the printed patent, which reads "... of $(1_{ii})_1 * (r_i)_2$ with $(1_{ii})_2 * (r_i)_1$..." should read -- ... of $(l_{ii})_1 * (r_i)_2$ with $(l_{ii})_2 * (r_i)_1$... --.

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PTO/SB/44 (04-05)

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 8 of 10

PATENT NO. : 7,043,510 B1

APPLICATION NO.: 09/597,478

ISSUE DATE : May 9, 2006

INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 68th line of claim 1, as the claim is set out in the printed patent, which reads
 “ $(l_{ij})_k x_i = (r_{ij})_k$ ” should read -- $(l_{ii})_k x_i = (r_{ij})_k$ --.

The 69th line of claim 1, as the claim is set out in the printed patent, which reads
 “wherein l_{ij} ...” should read -- wherein l_{ii} ... --.

The 74 line of claim 1, as the claim is set out in the printed patent, which reads
 “... $(l_{ii})_1^*(r_{ij})_2$ and a second product $(l_{ii})_2^*(r_{ij})_1$, ...” should read -- ... $(l_{ii})_1^*(r_{ij})_2$ and
 a second product $(l_{ii})_2^*(r_{ij})_1$, --.

The 7th line of claim 2, as the claim is set out in the printed patent, which reads
 “... $l_{ii})_1^*(r_{ij})_2$ and a second product $(l_{ii})_2^*(r_{ij})_1$, ...” should read -- ... $l_{ii})_1^*(r_{ij})_2$ and
 a second product $(l_{ii})_2^*(r_{ij})_1$, ... --.

The 2nd line of claim 3, as the claim is set out in the printed patent, which reads
 “...reduces the strings to the form $(l_{ij})_k x_i = (r_{ij})_k$...” should read -- ... reduces the
 strings to the form $(l_{ii})_k x_i = (r_{ij})_k$... --.

The 74rd line of claim 4, as the claim is set out in the printed patent, which reads
 “ $(l_{ij})_k x_i = (r_{ij})_k$ ” should read -- $(l_{ii})_k x_i = (r_{ij})_k$ --.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 9 of 10

PATENT NO. : 7,043,510 B1
 APPLICATION NO.: 09/597,478
 ISSUE DATE : May 9, 2006
 INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 75th line of claim 4, as the claim is set out in the printed patent, which reads
 "wherein $l_{ij} \dots$ " should read -- wherein $l_{ii} \dots$ --.

The 80th line of claim 4, as the claim is set out in the printed patent, which reads
 "... $(l_{ii})_1 * (r_i)_2$ and a second ..." should read -- ... $(l_{ii})_1 * (r_i)_2$ and a second --.

The 81st line of claim 4, as the claim is set out in the printed patent, which reads
 "...product $(l_{ii})_2 * (r_i)_1$, ..." should read -- ...product $(l_{ii})_2 * (r_i)_1$, --.

The 8th line of claim 5, as the claim is set out in the printed patent, which reads
 "... form $(l_{ij})_k x_i = (r_j)_k \dots$ " should read -- ... form $(l_{ij})_k x_i = (r_j)_k \dots$ --.

The 2nd line of claim 6, as the claim is set out in the printed patent, which reads
 "... of the strings to the form $(l_{ij})_k x_i = (r_j)_k \dots$ " should read -- ... of the strings to
 the form $(l_{ij})_k x_i = (r_j)_k \dots$ --.

The 84th line of claim 7, as the claim is set out in the printed patent, which reads
 " $(l_{ij})_k x_i = (r_j)_k$ " should read -- $(l_{ii})_k x_i = (r_j)_k$ --.

The 85th line of claim 7, as the claim is set out in the printed patent, which reads
 "wherein $l_{ij} \dots$ " should read -- wherein $l_{ii} \dots$ --.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 10 of 10

PATENT NO. : 7,043,510 B1
 APPLICATION NO.: 09/597,478
 ISSUE DATE : May 9, 2006
 INVENTOR(S) : Rajendra Kumar Bera

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The 89th line of claim 7, as the claim is set out in the printed patent, which reads
 "... a first product $(l_{ii})_1 * (r_i)_2$ and a second ..." should read -- ... a first product
 $(l_{ii})_1 * (r_i)_2$ and a second ... --.

The 90th line of claim 7, as the claim is set out in the printed patent, which reads
 "... product $(l_{ii})_2 * (r_i)_1$, ..." should read -- ... product $(l_{ii})_2 * (r_i)_1$, --.

The 7th line of claim 8, as the claim is set out in the printed patent, which reads
 "... reduces the strings to the form $(l_{ij})_k x_i = (r_j)_k$..." should read -- ... reduces the
 strings to the form $(l_{ij})_k x_i = (r_j)_k$... --.

The 2nd line of claim 9, as the claim is set out in the printed patent, which reads
 "... of the strings to the form $(l_{ij})_k x_i = (r_j)_k$..." should read -- ... of the strings to
 the form $(l_{ij})_k x_i = (r_j)_k$... --.

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